

WHAT IS CLAIMED IS

5 1. A reversible heat-sensitive paper comprising a reversible heat-sensitive recording layer that colors and discolors its surface by controlling the changing speed of temperature and/or keeping temperature, and the reversible heat-sensitive recording layer being kept to a solid colored state.

10 2. The reversible heat-sensitive recording layer comprises an electron donative dyestuff precursor and a reversible developer that colors and discolors the electron donative precursor, and the reversible heat-sensitive recording layer being heated to a fused state, in advance, and then quickly cooled to a solid colored state.

15 3. Methods of writing information on a reversible heat-sensitive paper, in which

20 a reversible heat-sensitive paper comprising a reversible heat-sensitive layer that comprises an electron donative dyestuff precursor and a reversible developer that colors and discolors the electron donative precursor is prepared by heating, in advance, to a molten state and then quickly cooled to a solid colored state, and a part of the reversible heat-sensitive recording layer is heated to a color-erasing temperature range that is lower than the
25 melting temperature of the reversible heat sensitive recording layer, during operation, and the part is discolored and stores the information.

4. Methods of writing information on a reversible

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heat-sensitive paper, in which

the reversible heat-sensitive paper comprising a reversible heat-sensitive recording layer that comprises an electron donative precursor and a reversible developer that colors and discolors the electron donative precursor, formed on a supporting base, is irradiated with light and an irradiated part is heated to heat the reversible heat-sensitive recording layer to a molten state, then the part is quickly cooled, and a colored portion is irradiated with light partially in superimposition, and the doubled irradiated portion is discolored by maintaining the portion in a color-erasing temperature range that is lower than the melting temperature of the reversible heat-sensitive recording layer, for a predetermined time, thereby, the portion is discolored.

5. Methods of writing information onto a reversible heat sensitive paper, on which an exposing mask is positioned between a light source and the reversible heat sensitive paper, light is transmitted through the mask and is focused on the reversible heat-sensitive paper, and two-dimensional information is written.

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